

CLAIMS:

1. A method for manufacturing a device to be used with a computer aided surgery system, the method comprising:

5 fabricating said device in accordance with its specifications, wherein said fabricating comprises providing said device with a tracker of a known configuration recognizable by said computer aided surgery system;

10 after said fabricating, measuring said device to obtain true parameters thereof, said measuring comprising determining a relative position of said tracker with respect to said device; and

15 storing said true parameters in a storage medium associated with said device such that said true parameters accompany said device.

2. A method as claimed in claim 1, wherein said storing said true parameters comprises marking said device with said true parameters by placing a visible code on said device, said code representing said true parameters.

3. A method as claimed in claim 2, wherein said marking said device comprises marking said device with said true parameters in a machine readable format.

4. A method as claimed in claim 3, wherein said marking said device with said true parameters in a machine readable format comprises using a linear barcode format.

5. A method as claimed in claim 1, wherein said storing said true parameters comprises storing said true parameters on a disc that is packaged with said device.

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6. A method as claimed in any one of claims 1 to 5, wherein said measuring said device comprises measuring using an apparatus that allows precision of 0.001mm.

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7. A method as claimed in claim 6, wherein said apparatus is a coordinate measuring machine.

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8. A method as claimed in any one of claims 1 to 7, wherein said providing said device with a tracker comprises providing a passive optical tracker.

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9. A method of calibrating a device to be used with a computer aided surgery system, said device having a tracker of a known configuration recognizable by said system provided thereon, the method comprising:

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measuring said device after fabrication to obtain true parameters thereof, said measuring including determining a relative position of said tracker with respect to said device;

storing said true parameters in a storage medium associated with said device such that said true parameters accompany said device;

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entering said true parameters into said computer aided surgery system, including said relative position of said tracker with respect to said device; and

identifying said device in a three dimensional environment of said system by using said

true parameters and recognizing a position of said tracker within said system.

10. A method as claimed in claim 9, wherein said storing said true parameters comprises marking said device with said true parameters by placing a visible code on said device, said code representing said true parameters.

10 11. A method as claimed in claim 9, wherein said storing said true parameters comprises storing said true parameters on a disc that is packaged with said device.

15 12. A method as claimed in claim 10, wherein said marking said device comprises marking said device with said true parameters in a machine readable format.

20 13. A method as claimed in claim 12, wherein said marking said device with said true parameters in a machine readable format comprises using a linear barcode format.

25 14. A method as claimed in any one of claims 9 to 13, wherein said measuring said device comprises measuring using an apparatus that allows precision of 0.001mm.

30 15. A method as claimed in claim 14, wherein said apparatus is a coordinate measuring machine.

16. A method as claimed in any one of claims 9 to 15, wherein said providing said device with a tracker comprises providing a passive optical tracker.

5 17. A method as claimed in any one of claim 9 to 16, further comprising confirming said true parameters entered into said system by placing said device into a standard calibration block.

10 18. A method as claimed in claim 17, wherein said identifying said device comprises updating said system with corrected true parameters if data from said standard calibration block differs from said true parameters.

15 19. A method as claimed in claim 12, wherein said entering said code into said system comprises scanning a bar-code into said system.

20 20. A method as claimed in claim 9, wherein said identifying said device comprises associating said true parameters with generic parameters stored in said system for said device, and updating said generic parameters to correspond to said true
25 parameters.

21. A device to be used with a computer aided surgery system, the device comprising:

30 a tracker mounted to said device, said tracker being of a known configuration and recognizable by said system; and

a storage medium associated with said device, said storage medium comprising true parameters of said device obtained by measuring said

device after fabrication, said true parameters including a relative position of said tracker with respect to said device.

5 22. A device as claimed in claim 21, wherein said storage medium is a code inscribed on said device, said code comprising said true parameters.

10 23. A device as claimed in claim 22, wherein said code is in a machine-readable format.

24. A device as claimed in claim 23, wherein said machine-readable format is a linear bar-code format.

15 25. A device as claimed in claim 21, wherein said storage medium is a disc that is packaged with said device.

20 26. A device as claimed in any one of claims 21 to 25, wherein said tracker is a passive optical tracker.

25 27. A device as claimed in any one of claims 21 to 26, wherein said tracker is integrally formed with said device.

28. A device as claimed in any one of claims 21 to 27, wherein said true parameters are measured with an apparatus providing a precision of 0.001mm.